

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001082

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: H01J 37/08, 27/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI: keywords: ion source; anode; volt, signal, potential; modulat, fluctuat, var, chang, between; threshold, limit, region; above, below, over, under, beneath, within

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4454453 A (SUGAWARA) 12 June 1984 See the entire document	
A	US 6577479 B1 (SPRINGER et al) 10 June 2003 See the entire document	
A	Patent Abstracts of Japan, JP 09-139187 A (ANELVA CORP) 27 May 1997 See abstract, drawings	
A	EP 215626 A2 (APPLIED MATERIALS, INC) 25 March 1987 See the entire document	

☐ Further documents are listed in the continuation of Box C

☒ See patent family annex

- * Special categories of cited documents:
 "A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
 "Z" document member of the same patent family

Date of the actual completion of the international search
29 October 2004

Date of mailing of the international search report

5 NOV 2004

Name and mailing address of the ISA/AU

AUSTRALIAN PATENT OFFICE
PO BOX 200, WODEN ACT 2606, AUSTRALIA
E-mail address: pct@ipaustralia.gov.au
Facsimile No. (02) 6285 3929

Authorized officer

JULIA HU
Telephone No : (02) 6283 2754

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001082

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member	
US	4454453	EP 0067450	JP 57208029
US	6577479		
JP	9139187		
EP	0215626	JP 62143353	US 4743767 US 4754200
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.			
END OF ANNEX			

BEST AVAILABLE COPY